



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Hamrin *et al.*

Appl. No.: 10/726,586

Filed: December 4, 2003

For: **Method and Apparatus for
Indirect Catalytic Combustor
Preheating**

Confirmation No.: 5036

Art Unit: 2834

Examiner: *To Be Assigned*

Atty. Docket: 2066.0230004

Information Disclosure Statement

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

Sir:

Listed on accompanying Form PTO-1449 are documents that may be considered material to the examination of this application, in compliance with the duty of disclosure requirements of 37 C.F.R. §§ 1.56, 1.97 and 1.98.

Applicants have listed publication dates on the attached PTO-1449 based on information presently available to the undersigned. However, the listed publication dates should not be construed as an admission that the information was actually published on the date indicated.

Applicants reserve the right to establish the patentability of the claimed invention over any of the information provided herewith, and/or to prove that this information may not be prior art, and/or to prove that this information may not be enabling for the teachings purportedly offered.

This statement should not be construed as a representation that a search has been made, or that information more material to the examination of the present patent

application does not exist. The Examiner is specifically requested not to rely solely on the material submitted herewith.

Applicants have checked the appropriate boxes below.

- ☐ 1. Statement under 37 C.F.R. 1.704(d). Each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart application and this communication was not received by any individual designated in 37 C.F.R. § 1.56(c) more than thirty days prior to the filing of this information disclosure statement.
- ☒ 2. Filing under 37 C.F.R. § 1.97(b). This Information Disclosure Statement is being filed within three months of the date of filing of a national application other than a continued prosecution application (CPA), OR within three months of the date of entry of the national stage as set forth in 37 C.F.R. § 1.491 in an international application, OR before the mailing date of a first Office Action on the merits OR before the mailing of a first Office Action after the filing of a request for continued examination under 37 C.F.R. § 1.114. No statement or fee is required.
- ☐ 3. Filing under 37 C.F.R. § 1.97(c). This Information Disclosure Statement is being filed more than three months after the U.S. filing date AND after the mailing date of the first Office Action on the merits, but before the mailing date of a Final Rejection, or Notice of Allowance, or an action that otherwise closes prosecution in the application.
 - ☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was first

cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

☐ c. Attached is our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p).

☐ 4. Filing under 37 C.F.R. § 1.97(d) This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Enclosed find our PTO-2038 Credit Card Payment Form in the amount of \$_____ in payment of the fee under 37 C.F.R. § 1.17(p); in addition:

☐ a. Statement under 37 C.F.R. § 1.97(e)(1). I hereby state that each item of information contained in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

application not more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(1).

- ☐ b. Statement under 37 C.F.R. § 1.97(e)(2). I hereby state that no item of information in this Information Disclosure Statement was cited in a communication from a foreign patent office in a counterpart foreign application and, to my knowledge after making reasonable inquiry, was known to any individual designated in 37 C.F.R. § 1.56(c) more than three months prior to the filing of this Information Disclosure Statement. 37 C.F.R. § 1.97(e)(2).

- ☐ 5. The document(s) was/were cited in a search report by a foreign patent office in a counterpart foreign application. Submission of an English language version of the search report that indicates the degree of relevance found by the foreign office is provided in satisfaction of the requirement for a concise explanation of relevance. 1138 OG 37, 38.

- ☒ 6. A concise explanation of the relevance of the non-English language document(s) appears below:

Document AP2 appears to describe a gas turbine for which a catalyst combustor for shortening the time required for warming a catalyst therein is used.

- ☒ 7. Copies of the cited documents AL1, AM1, AN1, AO1, AP1, AR1, AS1, AT1, AL2, AM2, AN2, AO2, AP2, and AR2 are submitted herewith.

- ☒ 9. No copies of U.S. patents and patent application publications cited on the attached Form PTO-1449 are submitted in accordance with 1276 OG 55 because this application was filed after June 30, 2003.

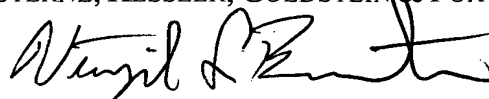
- ☒ 10. It is expected that the examiner will review the prosecution and cited art in the parent application no(s). 09/977,883, filed October 11, 2001; and 09/207,817, filed December 8, 1998, filed March 21, 2001 in accordance with MPEP 2001.06(b), and indicate in the next communication from the office that the art cited in the earlier prosecution history has been reviewed in connection with the present application.

It is respectfully requested that the Examiner initial and return a copy of the enclosed PTO-1449, and indicate in the official file wrapper of this patent application that the documents have been considered.

The U.S. Patent and Trademark Office is hereby authorized to charge any fee deficiency, or credit any overpayment, to our Deposit Account No. 19-0036.

Respectfully submitted,

STERNE, KESSLER, GOLDSTEIN & FOX P.L.L.C.



Virgil L. Beaton
Attorney for Applicants
Registration No. 47,415

Date: 5/19/2004

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Washington, D.C. 20005-3934
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FORM PTO-1449

INFORMATION DISCLOSURE STATEMENT

ATTY. DOCKET NO.
2066.0230004APPLICATION NO.
10/706,586FIRST NAMED INVENTOR
Douglas A. HAMRINFILING DATE
December 4, 2003ART UNIT
2834

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA1	2,864,244	12/1958	Prachar			
	AB1	3,124,924	3/1964	Smith			
	AC1	3,250,973	5/1966	Dawson			
	AD1	3,569,809	3/1971	Comer			
	AE1	3,591,844	7/1971	Schonebeck			
	AF1	3,703,076	11/1972	Hagemeister			
	AG1	3,724,214	4/1973	Bryant			
	AH1	3,764,815	10/1973	Habock <i>et al.</i>			
	AI1	3,809,914	5/1974	Kilgore <i>et al.</i>			
	AJ1	3,829,758	8/1974	Studtmann			
	AK1	3,937,974	2/1976	Lafuze			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL1	0 472 294	2/1992	EP			Yes No
	AM1	0 679 800	11/1995	EP			Yes No
	AN1	0 837 231	4/1998	EP			Yes No
	AO1	0 901 218	3/1999	EP			Yes No
	AP1	WO 94/27359	11/1994	WO			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

AR	<u>1</u>	Japanese Patent Application entitled "Turbogenerator/Motor Control System"; filed May 13, 1999, Japanese Serial No. 133003/1999.
AS	<u>1</u>	Japanese Patent Application entitled "Command and Control System and Method for Multiple Turbogenerators", filed October 27, 1999, Japanese Serial No. 305375/1999.
AT	<u>1</u>	Japanese Patent Application entitled "Turbogenerator/Motor Controller", filed August 4, 1998, Japanese Serial No. 220231/1998.

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2066.0230004	APPLICATION NO. 10/706,586
	FIRST NAMED INVENTOR Douglas A. HAMRIN	
	FILING DATE December 4, 2003	ART UNIT 2834

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA2	3,991,357	11/1976	Kaminski			
	AB2	4,005,581	2/1977	Aanstad			
	AC2	4,015,187	3/1977	Sasaki <i>et al.</i>			
	AD2	4,039,914	8/1977	Steigerwald <i>et al.</i>			
	AE2	4,093,869	6/1978	Hoffmann <i>et al.</i>			
	AF2	4,119,861	10/1978	Gocho			
	AG2	4,258,424	3/1981	Giras <i>et al.</i>			
	AH2	4,265,099	5/1981	Johnson <i>et al.</i>			
	AI2	4,292,534	9/1981	Diegel <i>et al.</i>			
	AJ2	4,340,820	7/1982	Meyer-Pittroff <i>et al.</i>			
	AK2	4,401,938	8/1983	Cronin			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL2	WO 98/25014	6/1998	WO			Yes No
	AM2	WO 99/32762	7/1999	WO			Yes No
	AN2	WO 99/52193	10/1999	WO			Yes No
	AO2	WO 00/28191	5/2000	WO			Yes No
	AP2	6-108879	04/1994	Japan			Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>2</u>	English Language Abstract for Japanese Patent 6-108879 (April 1994).
	AS	<u>2</u>	
	AT	<u>2</u>	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA3	4,442,385	4/1984	Van Sickle			
	AB3	4,471,229	9/1984	Plohn <i>et al.</i>			
	AC3	4,481,459	11/1984	Mehl <i>et al.</i>			
	AD3	4,498,551	2/1985	Arbisi			
	AE3	4,551,980	11/1985	Bronicki			
	AF3	4,560,364	12/1985	Cohen			
	AG3	4,565,957	1/1986	Gary <i>et al.</i>			
	AH3	4,684,814	8/1987	Radomski			
	AI3	4,709,318	11/1987	Gephart <i>et al.</i>			
	AJ3	4,719,550	1/1988	Powell <i>et al.</i>			
	AK3	4,730,397	3/1988	Weiford <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL3						Yes No
	AM3						Yes No
	AN3						Yes No
	AO3						Yes No
	AP3						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>3</u>	
	AS	<u>3</u>	
	AT	<u>3</u>	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA4	4,754,607	7/1988	Mackay			
	AB4	4,757,686	7/1988	Kawamura <i>et al.</i>			
	AC4	4,772,802	9/1988	Glennon <i>et al.</i>			
	AD4	4,786,852	11/1988	Cook			
	AE4	4,802,882	2/1989	Heidrich			
	AF4	4,830,412	5/1989	Raad <i>et al.</i>			
	AG4	4,833,887	5/1989	Kawamura <i>et al.</i>			
	AH4	4,841,216	6/1989	Okada <i>et al.</i>			
	AI4	4,862,009	8/1989	King			
	AJ4	4,883,973	11/1989	Lahey <i>et al.</i>			
	AK4	4,908,565	3/1990	Cook <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL4						Yes No
	AM4						Yes No
	AN4						Yes No
	AO4						Yes No
	AP4						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>4</u>	
	AS	<u>4</u>	
	AT	<u>4</u>	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA5	4,939,441	7/1990	Dhyanchand			
	AB5	4,955,199	9/1990	Kawamura			
	AC5	4,967,096	10/1990	Diemer <i>et al.</i>			
	AD5	4,968,926	11/1990	Dhyanchand			
	AE5	4,982,569	1/1991	Bronicki			
	AF5	5,013,929	5/1991	Dhyanchand			
	AG5	5,015,941	5/1991	Dhyanchand			
	AH5	5,029,062	7/1991	Capel			
	AI5	5,038,566	8/1991	Hara			
	AJ5	5,055,764	10/1991	Rozman <i>et al.</i>			
	AK5	5,057,763	10/1991	Torii <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL5						Yes No
	AM5						Yes No
	AN5						Yes No
	AO5						Yes No
	AP5						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>5</u>	
	AS	<u>5</u>	
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2834**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA6	5,068,590	11/1991	Glennon <i>et al.</i>			
	AB6	5,088,286	2/1992	Muraji			
	AC6	5,097,195	3/1992	Raad <i>et al.</i>			
	AD6	5,115,183	5/1992	Kyoukane <i>et al.</i>			
	AE6	5,158,504	10/1992	Stocco			
	AF6	5,191,520	3/1993	Eckersley			
	AG6	5,214,371	5/1993	Naidu			
	AH6	5,237,260	8/1993	Takakado <i>et al.</i>			
	AI6	5,250,890	10/1993	Tanamachi <i>et al.</i>			
	AJ6	5,252,860	10/1993	McCarty <i>et al.</i>			
	AK6	5,260,637	11/1993	Pizzi			

FOREIGN PATENT DOCUMENTS

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	AL6						Yes No
	AM6						Yes No
	AN6						Yes No
	AO6						Yes No
	AP6						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>6</u>	
	AS	<u>6</u>	
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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA7	5,281,905	1/1994	Dhyanchand <i>et al.</i>			
	AB7	5,291,106	3/1994	Murty <i>et al.</i>			
	AC7	5,309,081	5/1994	Shah <i>et al.</i>			
	AD7	5,325,043	6/1994	Parro			
	AE7	5,345,154	9/1994	King			
	AF7	5,363,032	11/1994	Hanson <i>et al.</i>			
	AG7	5,364,309	11/1994	Heidrich <i>et al.</i>			
	AH7	5,373,195	12/1994	De Doncker <i>et al.</i>			
	AI7	5,381,081	1/1995	Radun			
	AJ7	5,387,859	2/1995	Murugan <i>et al.</i>			
	AK7	5,404,092	4/1995	Gegner			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL7						Yes No
	AM7						Yes No
	AN7						Yes No
	AO7						Yes No
	AP7						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>1</u>	
	AS	<u>1</u>	
	AT	<u>1</u>	

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U.S. PATENT DOCUMENTS

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	AA8	5,406,797	4/1995	Kawamura			
	AB8	5,428,275	6/1995	Carr <i>et al.</i>			
	AC8	5,430,362	7/1995	Carr <i>et al.</i>			
	AD8	5,477,091	12/1995	Fiorina <i>et al.</i>			
	AE8	5,488,286	1/1996	Rozman <i>et al.</i>			
	AF8	5,495,162	2/1996	Rozman <i>et al.</i>			
	AG8	5,495,163	2/1996	Rozman <i>et al.</i>			
	AH8	5,510,696	4/1996	Naidu <i>et al.</i>			
	AI8	5,512,811	4/1996	Latos <i>et al.</i>			
	AJ8	5,544,484	8/1996	Voss <i>et al.</i>			
	AK8	5,545,090	8/1996	Kirschey			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL8						Yes No
	AM8						Yes No
	AN8						Yes No
	AO8						Yes No
	AP8						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>8</u>	
	AS	<u>8</u>	
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2834**U.S. PATENT DOCUMENTS**

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA9	5,546,742	8/1996	Shekhawat <i>et al.</i>			
	AB9	5,550,410	8/1996	Titus			
	AC9	5,550,455	8/1996	Baker			
	AD9	5,559,421	9/1996	Miyakawa			
	AE9	5,563,802	10/1996	Plahn <i>et al.</i>			
	AF9	5,568,023	10/1996	Grayer <i>et al.</i>			
	AG9	5,572,108	11/1996	Windes			
	AH9	5,581,168	12/1996	Rozman <i>et al.</i>			
	AI9	5,587,647	12/1996	Bansal <i>et al.</i>			
	AJ9	5,594,322	1/1997	Rozman <i>et al.</i>			
	AK9	5,637,987	6/1997	Fattic <i>et al.</i>			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL9						Yes No
	AM9						Yes No
	AN9						Yes No
	AO9						Yes No
	AP9						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>9</u>	
	AS	<u>9</u>	
	AT	<u>9</u>	

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U.S. PATENT DOCUMENTS

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	AA10	5,646,458	7/1997	Bowyer <i>et al.</i>			
	AB10	5,656,915	8/1997	Eaves			
	AC10	5,743,227	4/1998	Jacquet <i>et al.</i>			
	AD10	5,767,637	6/1998	Lansberry			
	AE10	5,789,881	8/1998	Egami <i>et al.</i>			
	AF10	5,799,484	9/1998	Nims			
	AG10	5,819,524	10/1998	Bosley <i>et al.</i>			
	AH10	5,847,522	12/1998	Barba			
	AI10	5,903,116	5/1999	Geis <i>et al.</i>			
	AJ10	5,905,346	5/1999	Yamada <i>et al.</i>			
	AK10	5,929,537	7/1999	Glennon			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL10						Yes No
	AM10						Yes No
	AN10						Yes No
	AO10						Yes No
	AP10						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>10</u>	
	AS	<u>10</u>	
	AT	<u>10</u>	

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U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA11	5,936,312	8/1999	Koide <i>et al.</i>			
	AB11	5,939,794	8/1999	Sakai <i>et al.</i>			
	AC11	5,946,086	8/1999	Bruce			
	AD11	5,982,645	11/1999	Levran <i>et al.</i>			
	AE11	5,998,976	12/1999	Steffan			
	AF11	6,005,297	12/1999	Sasaki <i>et al.</i>			
	AG11	6,020,713	2/2000	Geis <i>et al.</i>			
	AH11	6,023,135	2/2000	Gilbreth <i>et al.</i>			
	AI11	6,031,294	2/2000	Geis <i>et al.</i>			
	AJ11	6,051,951	4/2000	Arai <i>et al.</i>			
	AK11	6,054,776	4/2000	Sumi			

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL11						Yes No
	AM11						Yes No
	AN11						Yes No
	AO11						Yes No
	AP11						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

	AR	<u>11</u>	
	AS	<u>11</u>	
	AT	<u>11</u>	

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FORM PTO-1449 INFORMATION DISCLOSURE STATEMENT	ATTY. DOCKET NO. 2066.0230004	APPLICATION NO. 10/706,586
	FIRST NAMED INVENTOR Douglas A. HAMRIN	
	FILING DATE December 4, 2003	ART UNIT 2834

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA12	6,064,122	5/2000	McConnell			
	AB12	6,087,734	7/2000	Maeda <i>et al.</i>			
	AC12	6,107,775	8/2000	Rice <i>et al.</i>			
	AD12	6,147,414	11/2000	McConnell <i>et al.</i>			
	AE12	6,153,942	11/2000	Roseman <i>et al.</i>			
	AF12	6,169,332 B1	1/2001	Taylor <i>et al.</i>			
	AG12	6,169,334 B1	1/2001	Edelman			
	AH12	6,175,210 B1	1/2001	Schwartz <i>et al.</i>			
	AI12	6,194,794 B1	2/2001	Lampe <i>et al.</i>			
	AJ12	6,093,975	7/2000	Peticolas			
	AK12	6,016,658	01/2000	Willis <i>et al.</i>			

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB-CLASS	TRANSLATION
	AL12						Yes No
	AM12						Yes No
	AN12						Yes No
	AO12						Yes No
	AP12						Yes No

OTHER (Including Author, Title, Date, Pertinent Pages, etc.)

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EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB-CLASS	FILING DATE
	AA13	6,158,892	12/2000	Stewart <i>et al.</i>			
	AB13	6,190,048 B1	02/2001	Weissert			
	AC13	6,192,668 B1	02/2001	Mackay			
	AD13	6,107,693	08/2000	Mongio <i>et al.</i>			
	AE13	6,205,768	03/2001	Dibble <i>et al.</i>			
	AF13	2,624,172	01/1953	Houdry			
	AG13	3,928,961	12/1975	Pfefferle			
	AH13	6,269,625	08/2001	Dibble <i>et al.</i>			
	AI13	6,526,757	03/2003	Mackay			
	AJ13	6,606,864	08/2003	Mackay			
	AK13	4,039,804	08/1977	Reed <i>et al.</i>			

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	AL13						Yes No
	AM13						Yes No
	AN13						Yes No
	AO13						Yes No
	AP13						Yes No

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	AA14	6,487,096	11/2002	Gilbreth <i>et al.</i>			
	AB14	20020099476	07/2002	Hamrin <i>et al.</i>			
	AC14	3,313,103	04/1967	Johnson			
	AD14	3,740,948	01/1973	Kellett			
	AE14	5,490,376	02/1996	Van Der Burgt			
	AF14	6,003,297	12/1999	Ziener			
	AG14	2,285,976	06/1942	Huitson			
	AH14	3,396,083	03/1946	Chase			
	AI14	2,772,636	12/1956	Yates			
	AJ14	3,161,020	12/1964	LaHaye			
	AK14	3,313,103	01/1967	Johnson			

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	AL14						Yes No
	AM14						Yes No
	AN14						Yes No
	AO14						Yes No
	AP14						Yes No

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	AA15	3,500,105	02/1971	Clifford			
	AB15	3,623,317	11/1971	Foster-Pegg			
	AC15	4,062,184	12/1977	Hagen			
	AD15	4,724,670	02/1988	Greer			
	AE15	4,781,527	11/1988	Miller			
	AF15	4,785,624	11/1988	Smith <i>et al.</i>			
	AG15						
	AH15						
	AI15						
	AJ15						
	AK15						

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	AO15						Yes No
	AP15						Yes No

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